

WHAT IS CLAIMED IS:

1. A turbogenerator system, comprising:
 - a turbine;
 - a combustor that combusts fuel and compressed air to generate hot gas to drive the turbine, the combustor including a fuel injector;
 - a fuel line connected to the a fuel injector to supply fuel to the combustor from a liquid fuel source;
 - an electric generator rotationally coupled to the turbine to generate electric power; and
 - a source of compressed gas selectively coupled to the fuel line that passes compressed gas through the fuel line after shutdown of the turbogenerator to purge fuel from the fuel line and the fuel injector into the combustor,wherein the fuel purged from the at least one fuel line and the at least one fuel injector is combusted in the combustor.
2. The system of claim 1, further comprising:
 - a pressure regulator coupled to the compressed gas source that regulates the compressed gas passed through the fuel line.
3. The system of claim 2, wherein the pressure regulator comprises:
 - a regulator coupled to the compressed gas source that regulates the compressed gas passed through the fuel line to control combustion of the purged fuel in the combustor.

4. The system of claim 3, wherein the regulator comprises:
a pressure regulator coupled to the compressed gas source that regulates the compressed gas passed through the fuel line to control combustion of the purged fuel in the combustor in accordance with a predicted combustor pressure.

5. The system of claim 4, wherein the pressure regulator comprises:
a pressure regulator coupled to the compressed gas source that regulates the compressed gas passed through the fuel line to control combustion of the purged fuel in the combustor, the combustor pressure predicted based upon turbine speed.

6. The system of claim 5, further comprising:
a controller connected to the turbine that uses turbine speed to predict combustor pressure, the controller further connected to the pressure regulator to regulate the compressed gas.

7. The system of claim 6, wherein the controller comprises:
a look-up table containing a predicted combustor pressure as a function of measured turbine speed.

8. The system of claim 6, wherein the controller comprises:
an energy conversion device coupled to the generator that sinks excess electrical power generated by the combustion of the purged fuel.

9. The system of claim 8, wherein the energy conversion device is a brake resistor.

10. The system of claim 8, wherein the energy conversion device is a battery.

11. The system of claim 2, wherein the combustor comprises:
an ignitor that ignites the purged fuel in the combustor to complete combustion of the purged fuel.

12. The system of claim 2, wherein the source of compressed gas is selected from the group including gas compressors and compressed gas tanks.

13. The system of claim 12, wherein the compressed gas is compressed air.